

Help Comments Logout

Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers

### Search Results - 92 Hits.

Term	Occurrence
L2 (0P) (COMMUNICAT###/BI OR INTERFAC###/BI OR TRANSFER####/BI)	92
COMMUNICAT###/BI	180283
INTERFAC###/BI	59590
TRANSFER###/BI	270271

US Patents

Japanesie Basenies

European Patents

USOCR Patents

Refine Search:

12 (p) (communicat### or interfac### or transfer####)

### **Search History**

DB Name	Query	Hit Count Set Nan	<u>ne</u>	<u>Time</u>
ЉО	<pre>12 (p) (communicat### or interfac### or transfer####)</pre>	92 <u>I</u>	<u> 4</u>	Tue Feb 23 16:19:26 1999
JPO	l2 and (communicat### or interfac### or transfer####)	104 <u>I</u>	<u>L3</u>	Tue Feb 23 16:18:20 1999
JPO	process### (p) (programmable) (p) (bus### or line#)	231 <u>I</u>	<u>L2</u>	Tue Feb 23 16:15:06 1999
ЈРО	<pre>process### (p) (programmable(w) cell#) (p) (bus### or line#)</pre>	0 <u>I</u>	<u>_1</u>	Tue Feb 23 16:12:44 1999

Z39.50 Gateway Based on CNIDR Isite



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### Search Results - 198 Hits.

Term	Occurrence
L2 (0P) (COMMUNICAT###/BI OR INTERFAC###/BI OR TRANSFER####/BI)	198
PROCESS###/BI	423537
PROGRAMMABLE/BI	11565
BUS###/BI	22151
LINE#/BI	175790
COMMUNICAT###/BI	79739
INTERFAC###/BI	28702
TRANSFER###/BI	93819

US Patents
Japanese Patents
2010ps in Patents

USOCR Patents

▼

Refine Search:

12 (p) (communicat### or interfac### or transfer####)

### **Search History**

DB Name	Query	Hit Count Set Name	<u>Time</u>
EPO	<pre>12 (p) (communicat### or interfac### or transfer####)</pre>	198 <u>L5</u>	Tue Feb 23 16:20:35 1999
<b>JPO</b>	<pre>l2 (p) (communicat### or interfac### or transfer####)</pre>	92 <u>L4</u>	Tue Feb 23 16:19:26 1999
ΡΟ	12 and (communicat### or interfac### or transfer####)	104 <u>L3</u>	Tue Feb 23 16:18:20 1999
ЉΟ	process### (p) (programmable) (p) (bus### or line#)	231 <u>L2</u>	Tue Feb 23 16:15:06 1999
ЉО	process### (p) (programmable(w) cell#) (p) (bus### or line#)	0 <u>L1</u>	Tue Feb 23 16:12:44 1999

# GPI WEB CLIENT

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### Search Results - 0 Hits.

Term	Occurrence
L4 AND (DATA/BI (0W) FLOW/BI (0W) PROCESSOR#/BI)	0
DATA/BI	472225
FLOW/BI	231597
PROCESSOR#/BI	101044
DATA/BI (0W) FLOW/BI (0W) PROCESSOR#/BI	60

US Patents

| Tapanese Patents
| European Patents
| USOCR Patents | Tapanese | Tapanese

Refine Search:

14 and (data(w) flow(w) processor#)

## Search History

DB Nam	<u>Query</u>	Hit Count Set Na	ame	<u>Time</u>
JPO	14 and (data(w) flow(w) processor#)	0	<u>L6</u>	Tue Feb 23 16:24:47 1999
EPO	<pre>12 (p) (communicat### or interfac### or transfer####)</pre>	198	<u>L5</u>	Tue Feb 23 16:20:35 1999
ЈРО	l2 (p) (communicat### or interfac### or transfer####)	92	<u>L4</u>	Tue Feb 23 16:19:26 1999
JPO	l2 and (communicat### or interfac### or transfer####)	104	<u>L3</u>	Tue Feb 23 16:18:20 1999
ЈРО	process### (p) (programmable) (p) (bus### or line#)	231	<u>L2</u>	Tue Feb 23 16:15:06 1999
ЉΟ	<pre>process### (p) (programmable(w) cell#) (p) (bus### or line#)</pre>	0	<u>L1</u>	Tue Feb 23 16:12:44 1999

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### Search Results - 0 Hits.

Term	Occurrence
L4 AND (DATA/BI (0W) FLOW/BI (0W) PROCESSOR#/BI)	0
PROCESS###/BI	423537
PROGRAMMABLE/BI	11565
BUS###/BI	22151
LINE#/BI	175790
COMMUNICAT###/BI	79739
INTERFAC###/BI	28702
TRANSFER####/BI	93819
L2 (0P) (COMMUNICAT###/BI OR INTERFAC###/BI OR TRANSFER####/BI)	198
DATA/BI	516631
FLOW/BI	152399
PROCESSOR#/BI	26063
DATA/BI (0W) FLOW/BI (0W) PROCESSOR#/BI	18

US Patents
Japanese Patents
Rusopean Faughts

Database: USOCR Patents

Refine Search:

14 and (data(w) flow(w) processor#)

**Search History** 

DB Name	Query	Hit Count Set N	<u>ame</u>	<u>Time</u>
EPO	14 and (data(w) flow(w) processor#)	0	<u>L7</u>	Tue Feb 23 16:25:23 1999
ЉО	14 and (data(w) flow(w) processor#)	0	<u>L6</u>	Tue Feb 23 16:24:47 1999
ЕРО	12 (p) (communicat### or interfac### or transfer####)	198	<u>L5</u>	Tue Feb 23 16:20:35 1999
ЉΟ	12 (p) (communicat### or interfac### or transfer####)	92	<u>L4</u> .	Tue Feb 23 16:19:26 1999
ЛО	12 and (communicat### or interfac### or transfer####)	104	<u>L3</u>	Tue Feb 23 16:18:20 1999
ЈРО	process### (p) (programmable) (p) (bus### or line#)	231	<u>L2</u>	Tue Feb 23 16:15:06 1999
ЉО	<pre>process### (p) (programmable(w) cell#) (p) (bus### or line#)</pre>	0	<u>L1</u>	Tue Feb 23 16:12:44 1999

SZ39.50 Gateway Based on CNIDR Isite

d 1-2 cit hit

1. 5,480,823, Jan. 2, 1996, Method of making high density ROM, without using a code implant; Chen-Chung Hsu, 438/275, 297 [IMAGE AVAILABLE]

US PAT NO:

5,480,823 [IMAGE AVAILABLE]

L4: 1 of 2

#### ABSTRACT:

A method of fabricating read only memory, (ROM), devices has been developed. This **process** is accomplished using self-alignment of buried N+ bit lines. Thick field oxides are used for isolation purposes. The **programmable cell** is obtained by growing a gate oxide in a region in which the thick field oxide has been removed. The non-**programmable cells** contain thick gate oxides. Polysilicon gate structures are **processed** to function as the word **lines**.

2. 5,113,498, May 12, 1992, Input/output section for an intelligent cell which provides sensing, bidirectional communications and control; Shabtai Evan, et al., 395/828; 364/221, 221.1, 228, 228.1, 231.8, 232.2, 232.8, 237.8, 238.3, 240, 240.8, 240.9, 241.9, 242.94, 242.96, 244, 244.3, 244.6, 244.9, 247, 247.2, 247.5, 247.6, 247.7, 247.8, 254, 254.5, 259, 259.1, 259.3, 259.5, 260, 260.3, 260.4, 260.81, 262, 262.3, 262.4, 262.9, 270, 271, 271.4, 271.5, 281.3, 284, 284.3, 284.4, DIG.1 [IMAGE AVAILABLE]

US PAT NO:

5,113,498 [IMAGE AVAILABLE]

L4: 2 of 2

#### ABSTRACT:

A network for providing sensing, communications and control is described. A plurality of intelligent cells each of which comprises an integrated circuit having a processor and input/output section are coupled to the network. Each of the programmable cells receives when manufactured a unique identification number (48 bits) which remains permanently within the cell. The cells can be coupled to different media such as power lines, twisted, pair, radio frequency, infrared ultrasonic, optical coaxial, etc., to form a network. The preferred embodiment of the cell includes a multiprocessor and multiple I/O subsections where any of the processors can communicate with any of the I/O subsections. This permits the continual execution of a program without potential interruptions caused by interfacing with the I/O section. The I/O section includes programmable A-to-D and programmable D-to-A converters as well as other circuits for other modes of operation.

#### d 11 1,6,7,10,21 cit hit

1. 5,844,888, Dec. 1, 1998, Network and intelligent cell for providing sensing, bidirectional communications and control; Armas C. Markkula, Jr., et al., 370/255, 390, 400 [IMAGE AVAILABLE]

US PAT NO:

5,844,888 [IMAGE AVAILABLE]

L1: 1 of 22

SUMMARY:

BSUM (10)

A network for providing sensing, communications and control is described. A plurality of intelligent cells each of which comprises an integrated circuit having a **processor** and input/output section are coupled to the network. Each of the **programmable cells** receives when manufactured a unique identification number (48 bits) which remains permanently within the cell. The cells can be coupled to different media such as power **lines**, twisted pair, radio frequency, infrared ultrasonic, optical coaxial, etc., to form a network.

6. 5,475,687, Dec. 12, 1995, Network and intelligent cell for providing sensing, bidirectional communications and control; Armas C. Markkula, Jr., et al., 395/200.54; 370/419; 395/182.02 [IMAGE AVAILABLE]

US PAT NO:

5,475,687 [IMAGE AVAILABLE]

L1: 6 of 22

SUMMARY:

BSUM(10)

A network for providing sensing, communications and control is described. A plurality of intelligent cells each of which comprises an integrated circuit having a **processor** and input/output section are coupled to the network. Each of the **programmable cells** receives when manufactured a unique identification number (48 bits) which remains permanently within the cell. The cells can be coupled to different media such as power **lines**, twisted pair, radio frequency, infrared ultrasonic, optical coaxial, etc., to form a network.

7. 5,343,471, Aug. 30, 1994, Address filter for a transparent bridge interconnecting local area networks; Robert Cassagnol, 370/401 [IMAGE AVAILABLE]

US PAT NO:

5,343,471 [IMAGE AVAILABLE]

L1: 7 of 22

DETDESC:

DETD(40)

Referring now to FIG. 7, an overall block diagram of the filter and its interface with respect to the RAM 15 is shown. The filter itself comprises a programmable logic device such as the Xilinx programmable cell for carrying out the foregoing functions. The filter 11 is connected by a data bus 61 with the RAM 15, as well as the host processor 14. Similarly, an address bus 62 is shared to permit either the filter or processor to access the RAM 15.

10. 5,113,498, May 12, 1892, Input/output section for a intelligent cell which provides sending, bidirectional communication and control; Shabtai Evan, et al., 395/828; 364/221, 221.1, 228, 228.1, 231.8, 232.2, 232.8, 237.8, 238.3, 240, 240.8, 240.9, 241.9, 242.94, 242.96, 244, 244.3, 244.6, 244.9, 247, 247.2, 247.5, 247.6, 247.7, 247.8, 254, 254.5, 259, 259.1, 259.3, 259.5, 260, 260.3, 260.4, 260.81, 262, 262.3, 262.4, 262.9, 270, 271, 271.4, 271.5, 281.3, 284, 284.3, 284.4, DIG.1 [IMAGE AVAILABLE]

US PAT NO: 5,113,498 [IMAGE AVAILABLE] L1: 10 of 22

#### ABSTRACT:

A network for providing sensing, communications and control is described. A plurality of intelligent cells each of which comprises an integrated circuit having a processor and input/output section are coupled to the network. Each of the programmable cells receives when manufactured a unique identification number (48 bits) which remains permanently within the cell. The cells can be coupled to different media such as power lines, twisted, pair, radio frequency, infrared ultrasonic, optical coaxial, etc., to form a network. The preferred embodiment of the cell includes a multiprocessor and multiple I/O subsections where any of the processors can communicate with any of the I/O subsections. This permits the continual execution of a program without potential interruptions caused by interfacing with the I/O section. The I/O section includes programmable A-to-D and programmable D-to-A converters as well as other circuits for other modes of operation.

#### SUMMARY:

#### BSUM (10)

A network for providing sensing, communications and control is described. A plurality of intelligent cells each of which comprises an integrated circuit having a **processor** and input/output section are coupled to the network. Each of the **programmable cells** receives when manufactured a unique identification number (48 bits) which remains permanently within the cell. The cells can be coupled to different media such as power **lines**, twisted pair, radio frequency, infrared ultrasonic, optical coaxial, etc., to form a network.

21. 4,782,340, Nov. 1, 1988, Electronic arrays having thin film line drivers; Wolodymyr Czubatyj, et al., 340/825.83, 825.81; 345/92, 205 [IMAGE AVAILABLE]

US PAT NO: 4,782,340 [IMAGE AVAILABLE] L1: 21 of 22

SUMMARY:

BSUM (24)

Those building thin film electronic arrays of various types have long desired to fully integrate the circuitry performing the addressing function, including the driving of address lines and any addressing circuitry such as address decoding, with the electronic array being serviced by such circuitry. Full integration, that is, the fabrication of the address decoding and line driving circuitry on the same substrate with the electronic matrix using thin film semiconductor processing techniques, is expected to lower the over-all manufacturing cost and reduce the size of such arrays, while at the same time improving their reliability. One important technical problem blocking such full integration and which has heretofore not been satisfactorily overcome is the relatively low power capability of most thin film devices, particularly their low current capability. In electronic arrays, particularly very large arrays having many locations or programmable cells connected to one conductor or address line, relatively high

amounts of current must passed to and/or from such lines in a relatively short period time, especially at the beginning or end of an access cycle for an individual address line. A typical 640 column by 400 row thin film liquid crystal display matrix used as a television, for example, and refreshed at 60 Hertz must update 24,000 rows per second, or one row every 40 microseconds. Commercially acceptable solid-state memories, such as random access memories (RAMs) or electrically erasable programmable read only memories (EEPROMs), require line access cycle times that are typically one to three orders of magnitude faster. As the number of cells connected to one line increases, the capacitance and current requirements of that line increase, exacerbating the foregoing current and speed problems.

```
s (wire# or conductor# or line#) (p) process### (p) cell#
         363565 WIRE#
         195413 CONDUCTOR#
        1500513 LINE#
        1291644 PROCESS###
         277475 CELL#
          18259 (WIRE# OR CONDUCTOR# OR LINE#) (P) PROCESS### (P) CELL#
 L10
 => s 110 (p) programm####
         171665 PROGRAMM####
 L11
           1094 L10 (P) PROGRAMM####
=> s 110 (p) (programm#### (3a) cell#)
         171665 PROGRAMM####
         277475 CELL#
            339 L10 (P) (PROGRAMM#### (3A) CELL#)
 L12
```